

FIG. 1

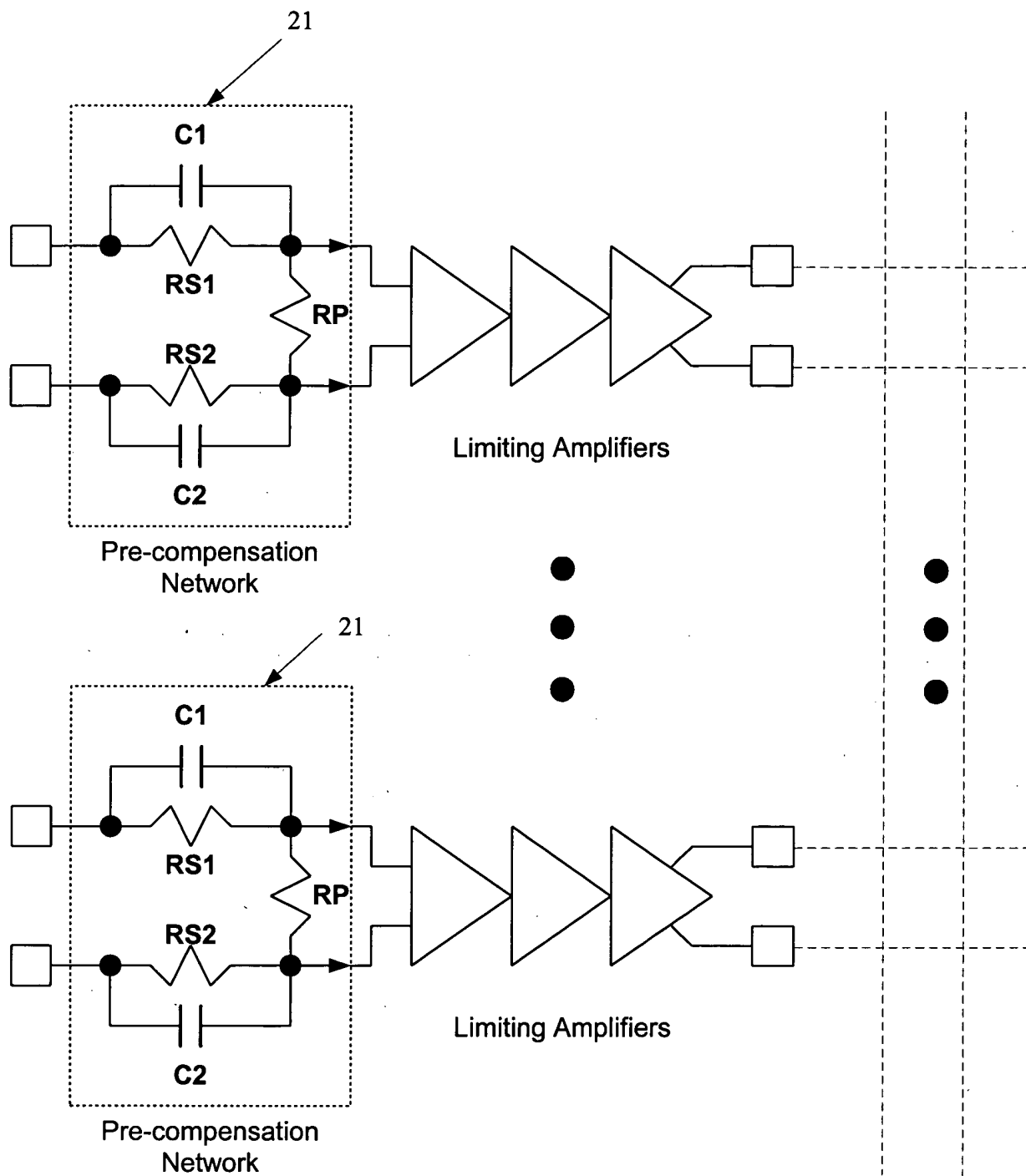


FIG. 2

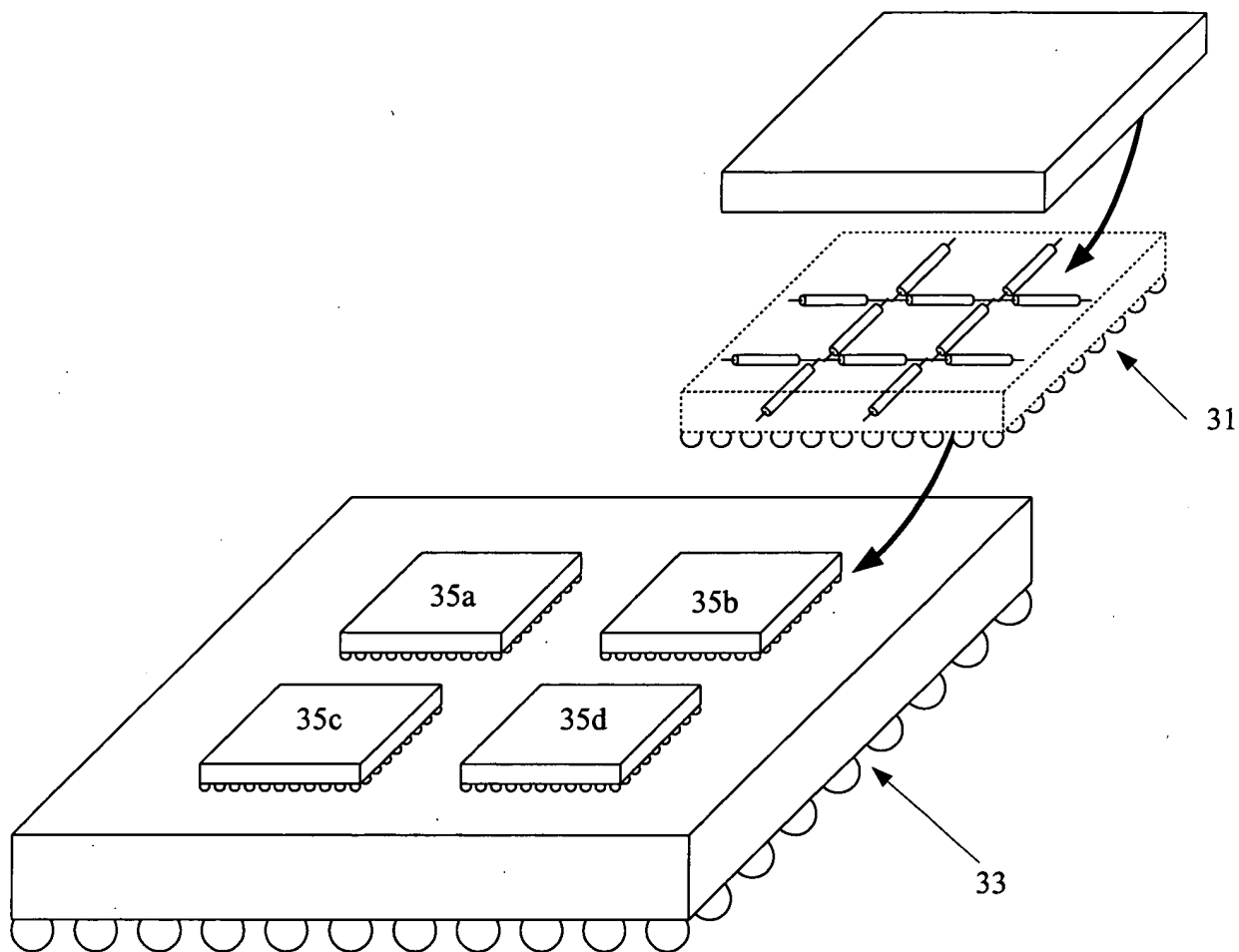


FIG. 3A

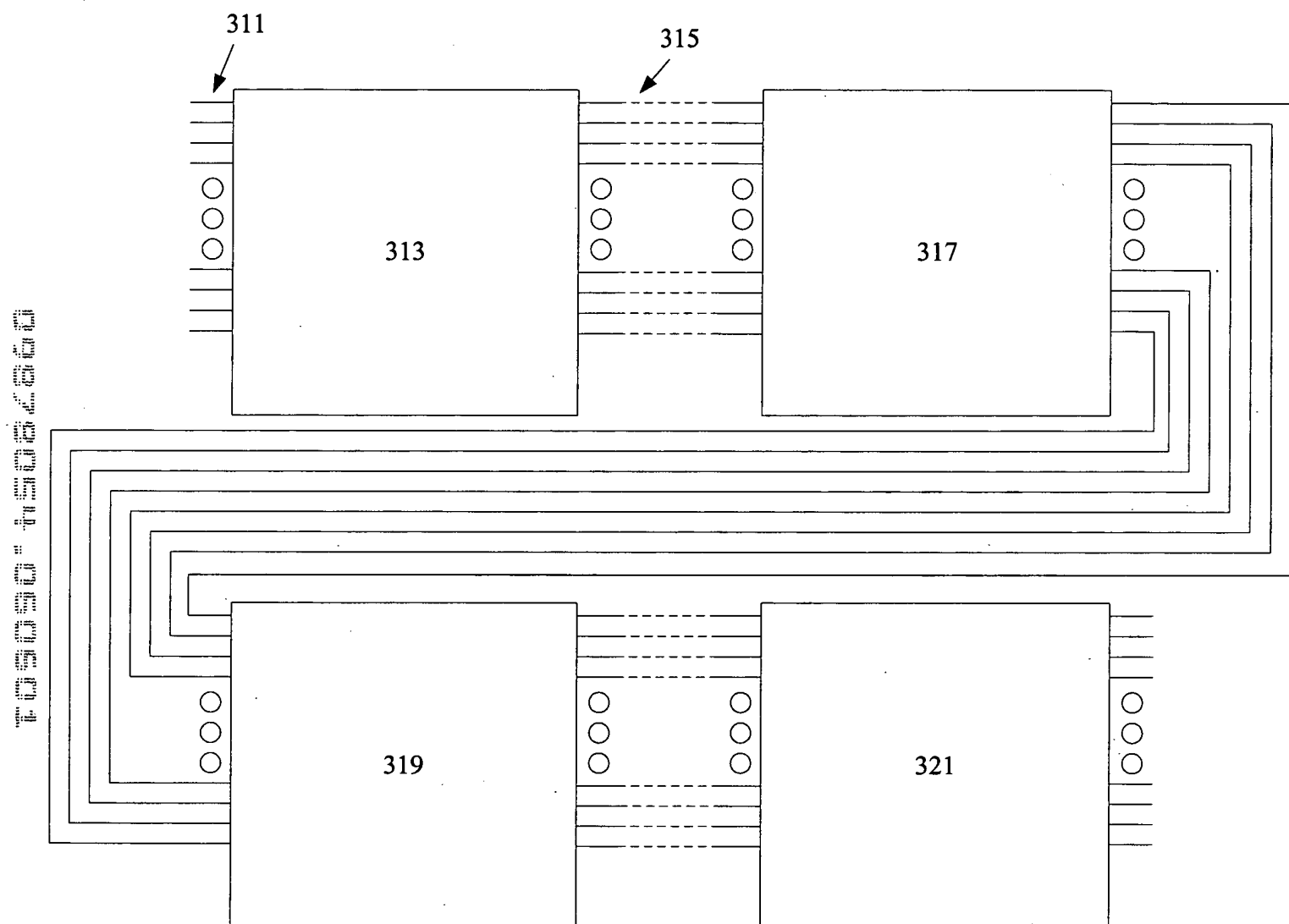


FIG. 3B

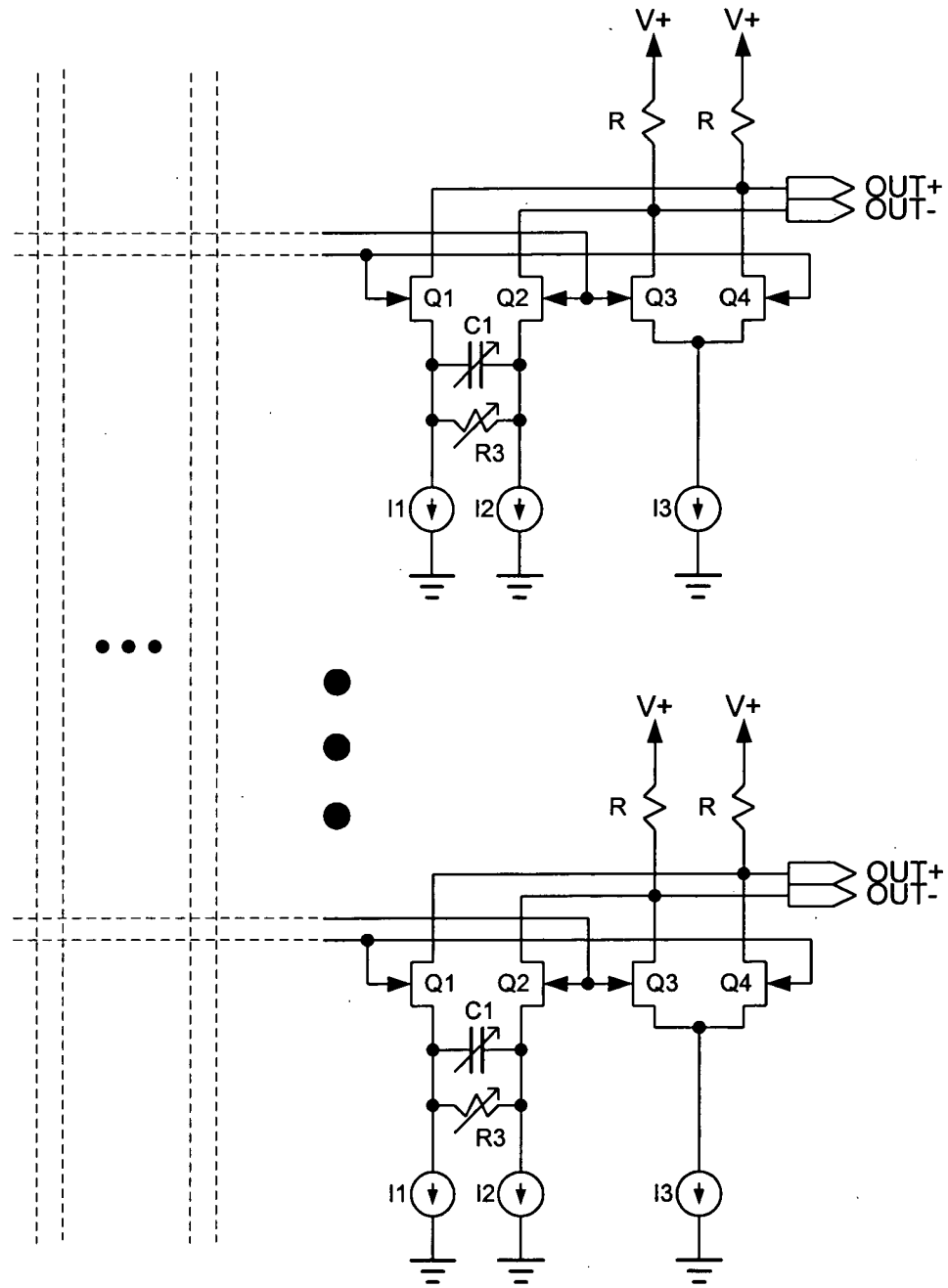


FIG. 4

The diagram illustrates a cross-sectional view of a multi-layered substrate structure. The layers are labeled as follows from top to bottom:

- SECONDARY SUBSTRATE SL2**: The topmost layer.
- FIRST SET**: A layer below the secondary substrate, containing two thick vertical black bars.
- IL1**: A layer below the first set, containing a thick vertical black bar.
- SECOND SET**: A layer below IL1, containing a thick vertical black bar.
- PL1** and **AL1**: Two layers below the second set, separated by a thick vertical black bar.
- SL1**: The bottommost layer.

On the right side, two horizontal arrows point from the structure to labels:

- The top arrow points to **SECOND ELEMENT E2**, corresponding to the region between the top and middle horizontal lines.
- The bottom arrow points to **FIRST ELEMENT E1**, corresponding to the region between the middle and bottom horizontal lines.

FIG. 5

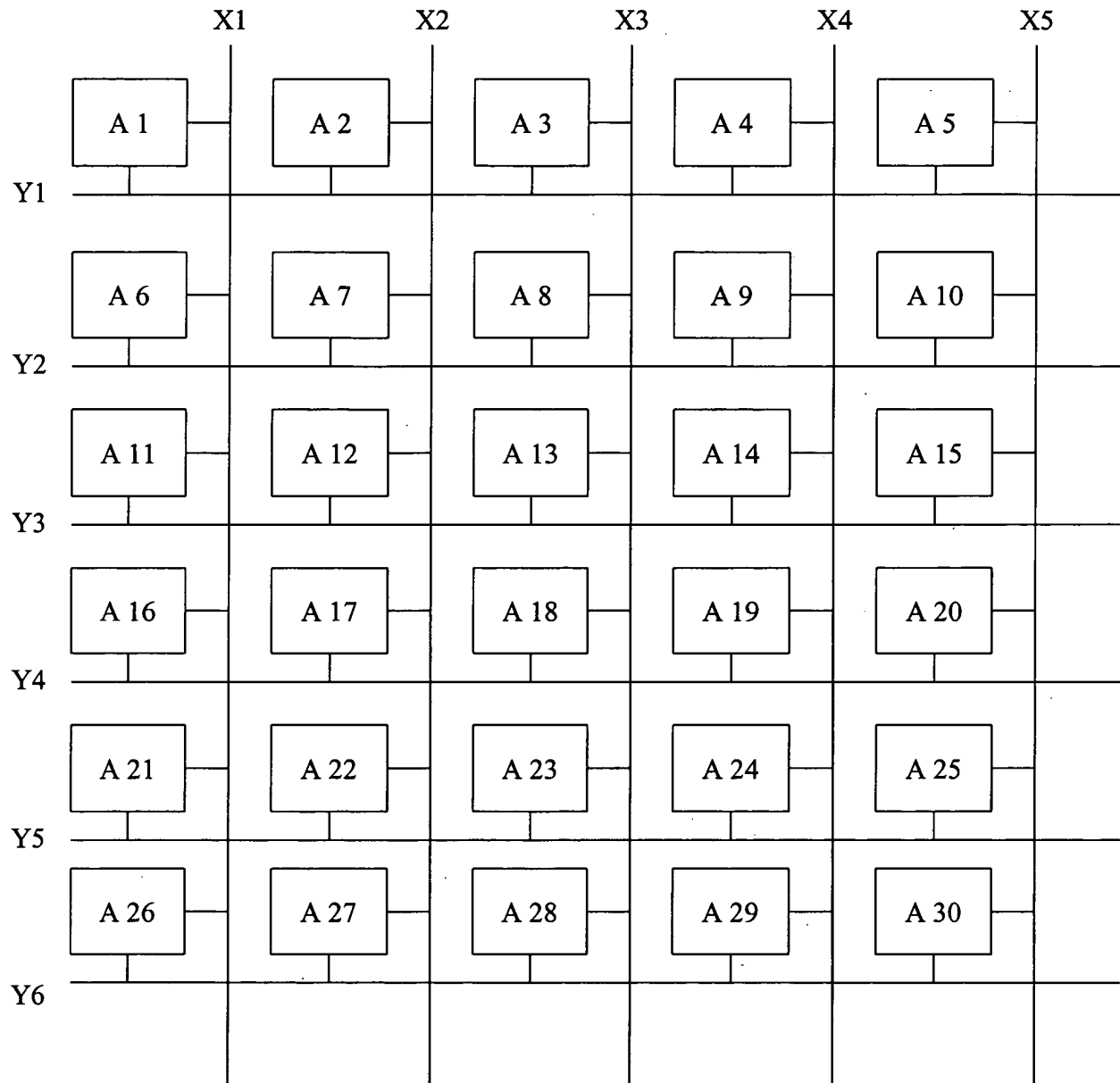


FIG. 6

FIG. 7

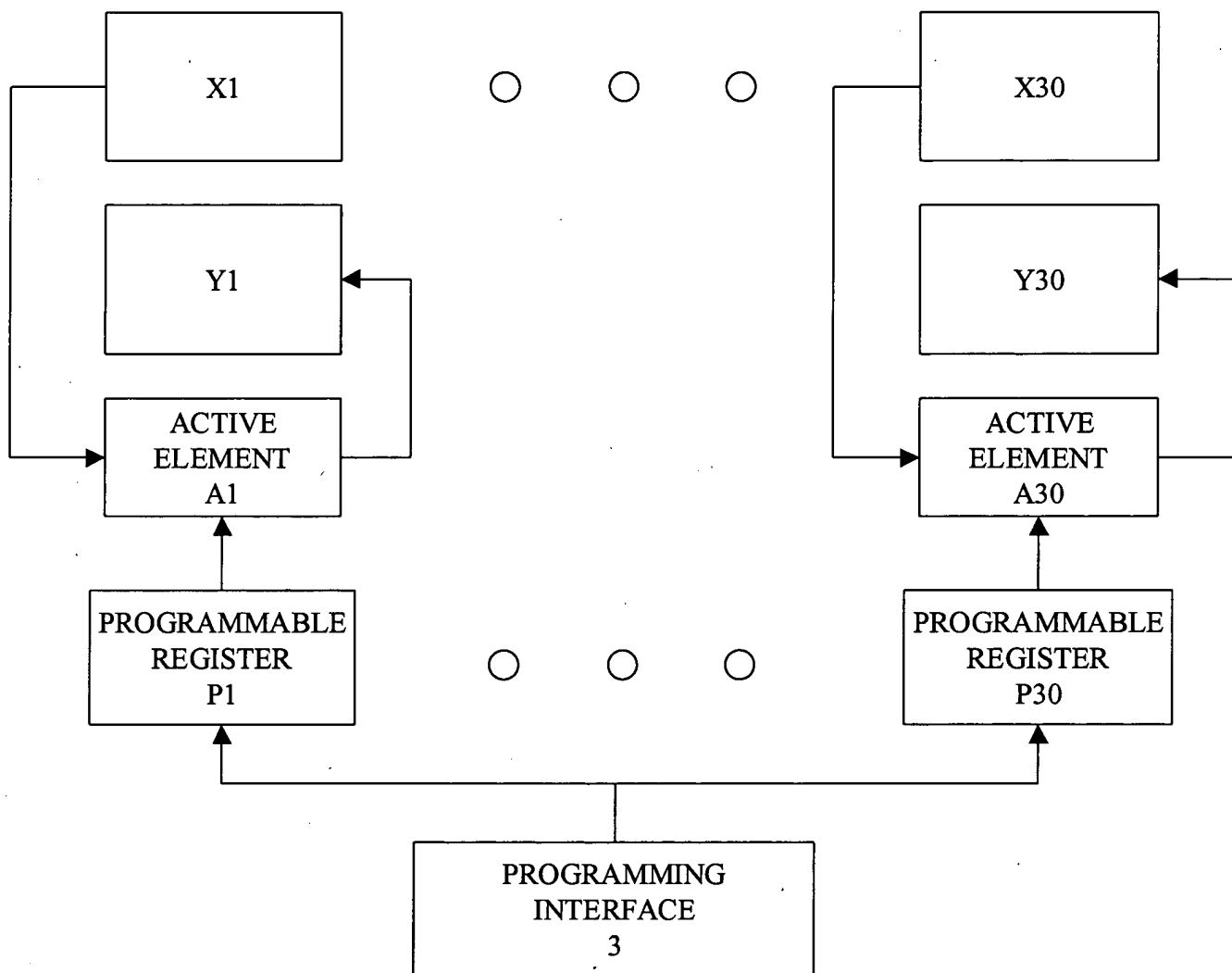


FIG. 7

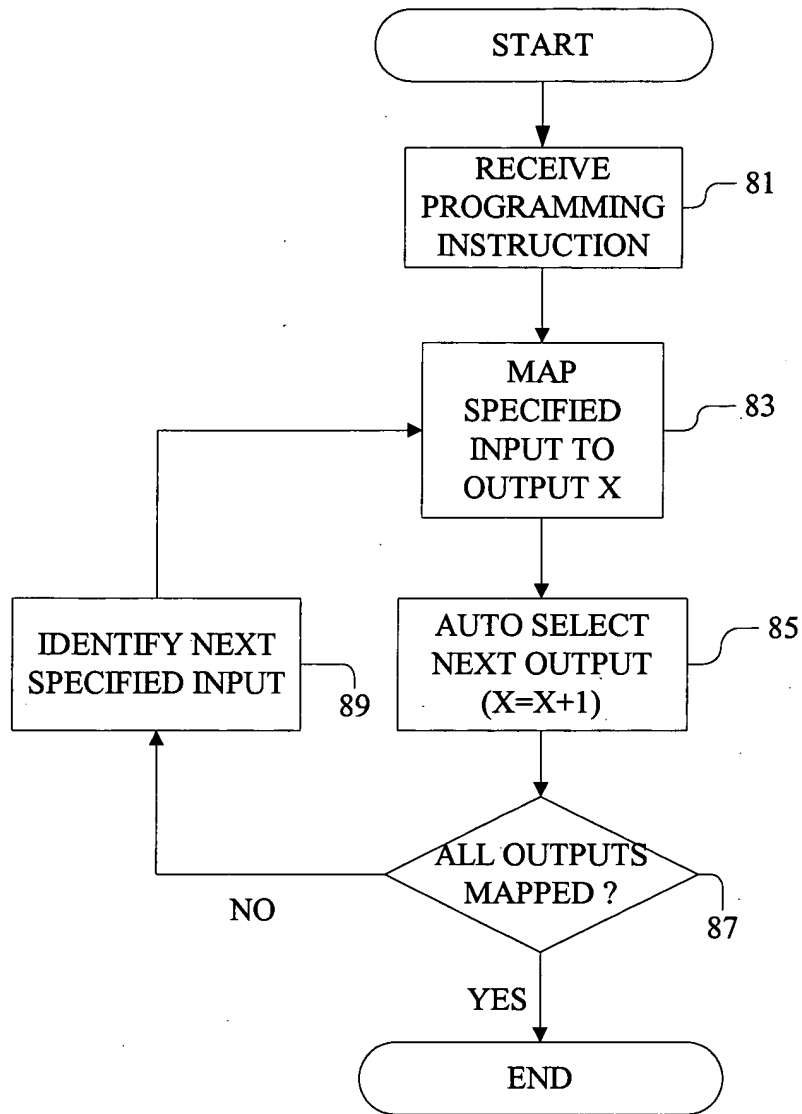


FIG. 8

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graph TD; START([START]) --> 91[RECEIVE PROGRAMMING INSTRUCTION]; 91 --> 93[LOOKUP GROUP NUMBERS]; 93 --> 95[IDENTIFY INPUTS/OUTPUTS IN GROUP NUMBER]; 95 --> 97[MAP INPUT GROUP TO OUTPUT GROUP]; 97 --> 99{MAPPING COMPLETE?}; 99 -- NO --> 93; 99 -- YES --> END([END]);
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FIG. 9

FIG. 10

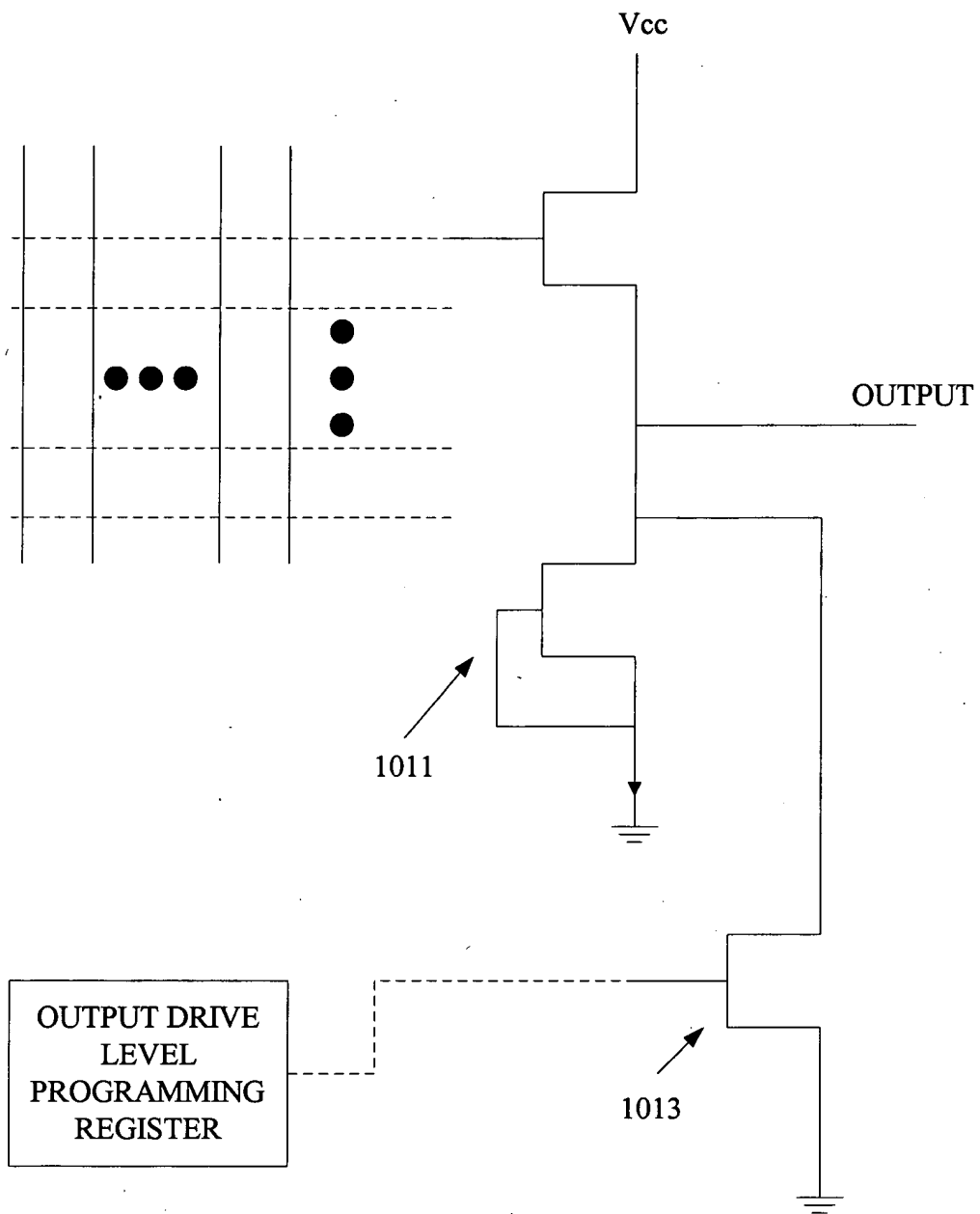


FIG. 10

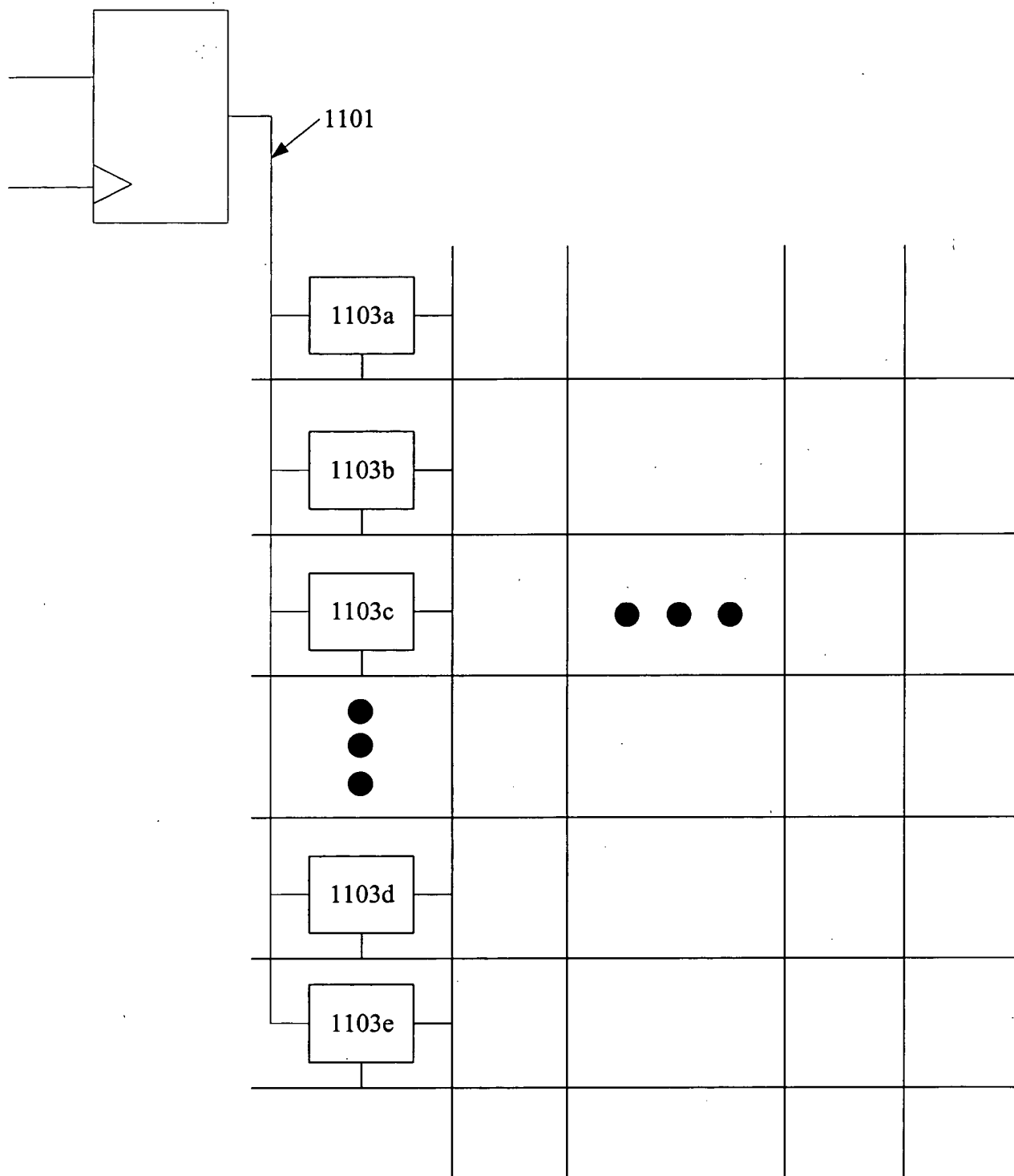


FIG. 11

FIG. 12

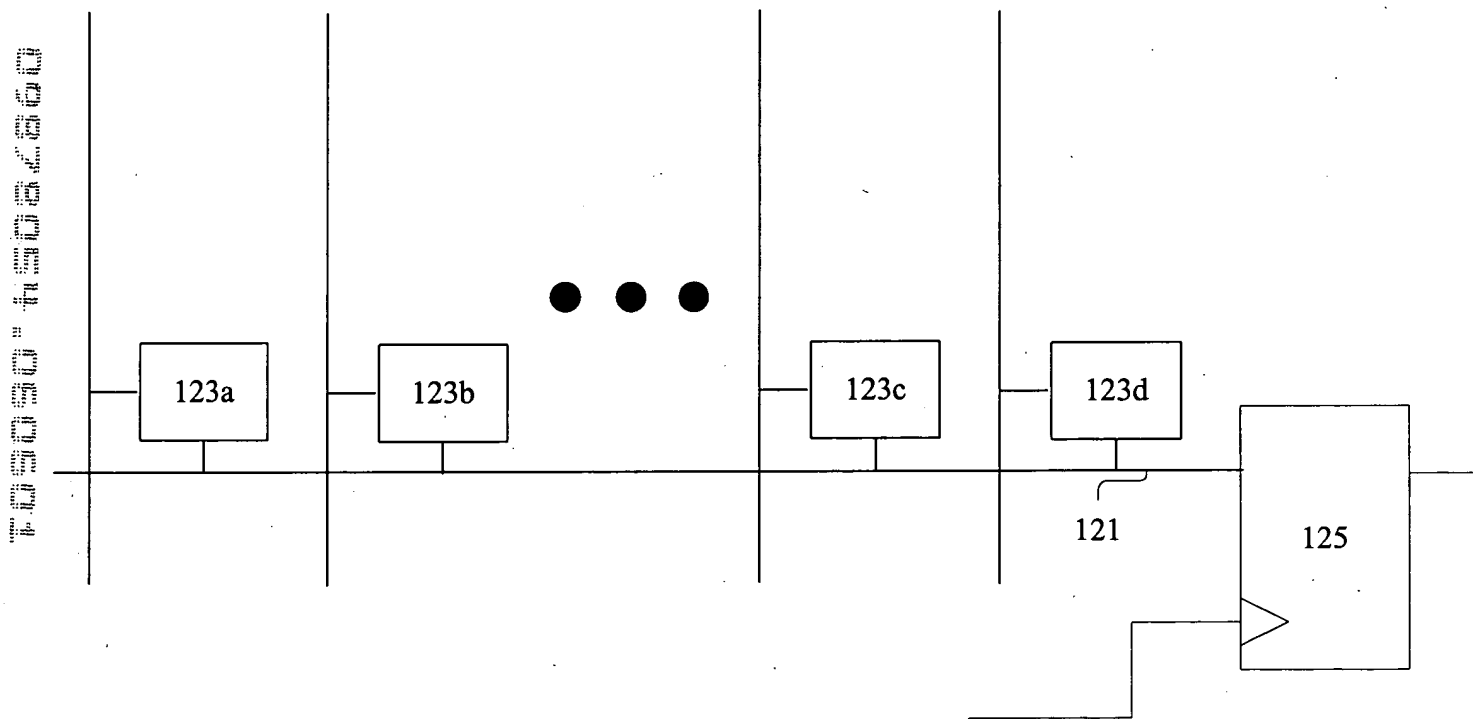


FIG. 13

